

Bryant Waterworks

2014 Annual Drinking Water Quality Report

We're pleased to present to you this year's Annual Drinking Water Quality Report. This report is designed to inform you about the quality water and services we deliver to you every day. Our goal is to provide you with a safe and dependable supply of drinking water, and we want you to understand, and be involved in, the efforts we make to continually improve the water treatment process and protect our water resources.

Where Does Our Drinking Water Come From?

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. We purchase treated surface water from Central Arkansas Water (CAW). Central Arkansas Water's supply is from two lakes: Lake Winona and Lake Maumelle. Both lakes can supply Jackson Reservoir, a regulating reservoir located in Little Rock. Water is delivered by pipeline to the Jack H. Wilson and Ozark Point water treatment plants. Both treatment facilities are located in Little Rock.

How Safe Is The Source Of Our Drinking Water?

The Arkansas Department of Health has completed a Source Water Vulnerability Assessment for Central Arkansas Water. The assessment summarizes the potential for contamination of our sources of drinking water and can be used as a basis for developing a source water protection plan. Based on the various criteria of the assessment, Central Arkansas Water has been determined to have a medium susceptibility to contamination. You may request a summary of the Source Water Vulnerability Assessment from our office.

What Contaminants Can Be In Our Drinking Water?

As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include: Microbial contaminants such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife; Inorganic contaminants such as salts and metals, which can be naturally occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming; Pesticides and herbicides which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses; Organic chemical contaminants including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems; Radioactive contaminants which can be naturally occurring or be the result of oil and gas production and mining activities.

In order to assure tap water is safe to drink, EPA has regulations which limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Am I at Risk?

All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. However, some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from small amounts of contamination. These people should seek advice about drinking water from their health care providers. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791. In addition, EPA/CDC guidelines on appropriate means to lessen the risk of infection by microbiological contaminants are also available from the Safe Drinking Water Hotline.

What is Cryptosporidium?

Cryptosporidium is a microbial pathogen found in surface water throughout the U.S. It lives and reproduces only with the host. In the environment, *Cryptosporidium* exists as a thick walled oocyst, containing four organisms. Monitoring by Central Arkansas Water in 2014 indicated no presence of these organisms in their Lake Maumelle, Lake Winona, or Jackson Reservoir water sources. It is important to know that although filtration removes *Cryptosporidium*, the most commonly used filtration methods cannot guarantee 100 percent removal. Ingestion of *Cryptosporidium* may cause cryptosporidiosis, an abdominal infection. Symptoms of infection include nausea, diarrhea, and abdominal cramps. Most healthy individuals can overcome the disease within a few weeks. However, immuno-compromised people are at greater risk of developing life threatening illness. We encourage immuno-compromised individuals to consult their doctor regarding appropriate precautions to take to avoid infection. *Cryptosporidium* must be ingested to cause disease, and it may be spread through means other than drinking water.

INORGANIC CONTAMINANTS						
Contaminant	Violation Y/N	Level Detected	Unit	MCLG (Public Health Goal)	MCL (Allowable Level)	Major Sources in Drinking Water
Fluoride (Central Ark. Water – Ozark Point WTP)	N	Average: 0.70 Range: 0.54 – 0.91	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth
Fluoride (Central Ark. Water – Jack Wilson WTP)	N	Average: 0.66 Range: 0.56 – 0.87	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth
LEAD AND COPPER TAP MONITORING						
Contaminant	Number of Sites over Action Level	90 th Percentile Result	Unit	Action Level	Major Sources in Drinking Water	
Lead (Bryant Waterworks)	0	<0.003	ppm	0.015	Corrosion from household plumbing systems; erosion of natural deposits	
Copper (Bryant Waterworks)	0	<0.20	ppm	1.3		
♦ We are currently on a reduced monitoring schedule and required to sample once every three years for lead and copper at the customers’ taps. The results above are from our last monitoring period in 2014. Our next required monitoring period is in 2017.						
TOTAL ORGANIC CARBON						
♦ The percentage of Total Organic Carbon (TOC) removal was routinely monitored by Central Arkansas Water in 2014, and all TOC removal requirements set by USEPA were met. Total organic carbon (TOC) has no health effects. However, total organic carbon provides a medium for the formation of disinfection by-products. These by-products include trihalomethanes (THMs) and haloacetic acids (HAAs).						
REGULATED DISINFECTANTS						
Disinfectant	Violation Y/N	Level Detected	Unit	MRDLG (Public Health Goal)	MRDL (Allowable Level)	Major Sources in Drinking Water
Chlorine (Bryant Waterworks)	N	Average: 0.71 Range: 0.3 – 4.5	ppm	4	4	Water additive used to control microbes
♦ While only the upper range of samples exceeded the allowable level, it should be stated that some people who use water containing chlorine well in excess of the MRDL, could experience irritating effects to their eyes and nose. Some people who drink water containing chlorine well in excess of the MRDL could experience stomach discomfort.						
BY-PRODUCTS OF DRINKING WATER DISINFECTION						
Contaminant	Violation Y/N	Level Detected	Unit	MCLG (Public Health Goal)	MCL (Allowable Level)	
HAA5 [Haloacetic Acids] (Bryant Waterworks)	N	Highest Running 12 Month Average: 21 Range: 7.5 – 27.9	ppb	0	60	
TTHM [Total Trihalomethanes] (Bryant Waterworks)	N	Highest Running 12 Month Average: 67 Range: 32.4 – 92.6	ppb	NA	80	
Chlorite (Central Arkansas Water)	N	Average: 200 Range: 20 - 605	ppb	800	1000	
♦ While only the upper end of the ranges of the TTHMs exceeded their MCLs, it should be noted that some people who drink water containing Trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.						
UNREGULATED CONTAMINANTS						
Contaminant (Both WTPs)	Level Detected	Unit	MCLG (Public Health Goal)	Major Sources in Drinking Water		
Chloroform (Central Arkansas Water)	Average: 18.15 Range: 6.89 – 29.4	ppb	70	By-product of drinking water disinfection		
Bromodichloromethane (Central Arkansas Water)	Average: 4.21 Range: 1.20 – 7.22	ppb	0			
Dibromochloromethane (Central Arkansas Water)	1.96	ppb	60			
♦ Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted. MCLs (Maximum Contaminant Levels) and MCLGs (Maximum Contaminant Level Goals) have not been established for all unregulated contaminants.						

VIOLATIONS – Bryant Waterworks

TYPE: Bacteriological Sampling	FROM:	TO:	CORRECTIVE ACTION:
Exceeded the Maximum Contaminant Level (MCL) for Total Coliform bacteria	7/1/2014	7/31/2014	Adjusted the level of disinfectant and resumed bacteriological monitoring as required by state and federal regulations

This institution is an equal opportunity provider and employer.